

## CLAIMS

1. A message compression method comprising the steps  
5 of:  
pre-placing a message template at a far end  
communication system of a communication link;  
transmitting by a near end communication system a  
compressed message related to the message template; and  
10 producing at the far end communication system an  
uncompressed message.
2. A message compression method as claimed in claim  
1, wherein the step of producing includes the step of  
15 combining the message template and the compressed  
message.
3. A message compression method as claimed in claim  
2, wherein the step of combining includes the step of  
20 determining by the far end communication system that  
the compressed message is a request for a message  
template.
4. A message compression method as claimed in claim  
25 3, wherein the step of combining further includes the  
step of obtaining a template index from the compressed  
message to indicate an identity of a requested message  
template.
- 30 5. A message compression method as claimed in claim  
4, wherein the step of combining further includes the  
step of determining by the far end communication system  
whether the compressed message indicates whether  
additional parameters are present.

6. A message compression method as claimed in claim 5, wherein the step of combining further includes the steps of:

if the additional parameters are present:

5 removing each additional parameter from the compressed message; and

inserting each additional parameter into the message template.

10 7. A message compression method as claimed in claim 6, wherein there is further included a step of iterating the steps of removing and inserting for each additional parameter.

15 8. A message compression method as claimed in claim 1, wherein the step of transmitting includes the step of generating the compressed message by a template processing function at the near end communication system.

20 9. A message compression method as claimed in claim 8, wherein the step of generating includes the steps of:

25 providing a service request message identifier within the compressed message;

providing a template on/off flag within the compressed message; and

providing a template index within the compressed message.

30 10. A message compression method as claimed in claim 9, wherein the step of generating further includes the steps of:

35 providing an additional parameters are present flag within the compressed message; and

providing additional parameters within the compressed message.

11. A message compression method as claimed in claim  
5 1, wherein the step of pre-placing includes the step of transmitting an uncompressed message by the near end communication system.
12. A message compression method as claimed in claim  
10 11, wherein the step of pre-placing includes the step of storing the uncompressed message as a template by a template processing function of the far end communication system.
13. A message compression method as claimed in claim  
15 1, wherein the message compression method is provided within a Session Initiation Protocol communication system.
14. A message compression method as claimed in claim  
20 1, wherein the near end communication system and far end communication system are radio frequency communication systems.
15. A message compression method as claimed in claim  
25 1, wherein:  
the near end communication system comprises a client SIP application or a server SIP application; and  
the far end communication system comprises a  
30 client SIP application or a server SIP application.

16. A SIP message compression method for a mobile unit comprising the steps of:

- pre-placing a message template at a server;
- transmitting by the mobile unit a compressed
- 5 message over an RF link, the compressed message related to the message template; and
- combining by the server the compressed message and the message template to produce an uncompressed message.

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17. The SIP message compression method as claimed in claim 16, wherein the step of pre-placing includes the steps of:

- transmitting by the mobile unit the message
- 15 template; and
- storing the message template by a template processing function of the server.

18. The SIP message compression method as claimed in claim 16, wherein the step of transmitting includes the step of generating the compressed message by a template processing function of the mobile unit.

19. The SIP message compression method as claimed in claim 18, wherein the step of generating includes the steps of:

- providing a service request message identifier within the compressed message;
- providing a template on/off flag within the
- 30 compressed message; and
- providing a template index within the compressed message.

20. The SIP message compression method as claimed in claim 19, wherein the step of generating further includes the steps of:

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providing an additional parameters are present  
flag within the compressed message; and

providing additional parameters within the  
compressed message.

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21. The SIP message compression method as claimed in  
claim 17, wherein the step of combining includes the  
steps of:

10 determining by the template processing function of  
the server whether a compressed message is received;  
and

determining by the template processing function of  
the server which message template is related to the  
compressed message.

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22. The SIP message compression method as claimed in  
claim 21, wherein there is further included the steps  
of:

20 removing parameters from the compressed message by  
the template processing function of the server; and

inserting the removed parameters into the message  
template by the template processing function of the  
server.

25 23. A SIP compressed message data structure  
comprising:

a service request message identifier data field;

a template on/off data field;

a template index data field; and

30 an additional parameters are present data field.

24. The SIP compressed message data structure as  
claimed in claim 23, wherein, if the additional  
parameters are present data field is set to a first  
35 value, an additional parameters data field is included.

25. A message compression method comprising the steps of:

transmitting by a communication unit a compressed message over an RF link to a server; and

5 combining by the server the compressed message with a message template to produce an uncompressed message.

26. The message compression method as claimed in claim 10 25, wherein there is further included the steps of:

transmitting by the communication unit the message template; and

storing the message template by a template processing function of the server.

15 27. The message compression method as claimed in claim 25, wherein there is further included a step of generating the compressed message by a template processing function of the communication unit.

20 28. The message compression method as claimed in claim 27, wherein the step of generating includes the steps of:

providing a service request message identifier within the compressed message;

providing a template on/off flag within the compressed message; and

providing a template index within the compressed message.

30 29. The message compression method as claimed in claim 28, wherein the step of generating further includes the steps of:

providing an additional parameters are present flag within the compressed message; and

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